

ABSTRACT

1 A system and method for using specially printed paper and a handheld device to
2 supplement, or replace, large displays and user interfaces commonly required for efficient
3 use of computing devices. The paper is encoded with location information and a
4 message. The message is distributed redundantly across the page, may be arbitrarily
5 large, and may contain security information. In one embodiment, the device uses a single
6 sensor to read the encoded message and location information, and to measure the relative
7 motion of the device. After scanning the specially printed paper, a user may then raise
8 the device, place it on any convenient flat surface, and continue to slide, exploring areas
9 outside of the printed copy.

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